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BEAUTIFUL NATIVE PLANTS

FROM THE
HIGH PLAINS, BAD LANDS
AND BLACK HILLS

1960

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PENSTEMONS (*P. albidus*) in the soft limy loam of the Pine Ridge bad lands, below a "chimney" butte and western yellow pines.

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☆ ☆
Claude A. Barr
PRAIRIE GEM RANCH
SMITHWICK, S. D.

Awarded John Robertson Memorial Medal, 1958, by the South Dakota Horticultural Society, for meritorious contributions to horticulture.

HABITAT AND GARDEN SUCCESS:

To grow the Great Plains plants it is important to recognize native factors of adaptation and environment. Character and faculty have been molded in these plants by untold ages of living where periods of moisture shortage are long and of moisture excess very brief.

Moisture retention devices in the plant structure have been developed to an outstanding degree to withstand shortage; to escape excesses the canny plants select high places and slopes, rocky, gravelly and porous soils from which excess water readily drains away or down, thus quickly restoring aeration. In general moisture is sought, wetness avoided.

A recommended scree mixture for replacing soils that are close textured and impervious or too rich and moisture retentive, or to counteract inescapable shade from remote trees or other objects is made up of equal parts of ordinary soil, coarse sand, and fine gravel or rock chips, including some lime. This provides an excellent base for all Great Plains plants. The needs of certain subjects for portions of richer soil may be met by adding leaf-mold or other humus locally, in planting or in top-dressing.

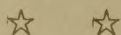
All plants listed herein are tolerant of lime and a few demand it. If your rooting medium is suspected of not being "lean" enough for the ardent sun-lovers substitute subsoil, up to three-fourths for soil. Lime in a very acceptable form and coarse drainage material, if your needs are for less than ton lots, may be had from poultry supply stores in the form of crushed oyster shells and hen grit.

SERVICE: High quality plants only are sent on your order. Our packing will please. In addition to culture suggested in this catalog special advice is offered when it may prove useful or on request. Every effort is made to get shipments out when desired. Mention of your preferred date will be appreciated, and of one or two alternatives, as a few items may become exhausted.

PRICES include prepaid delivery by parcel post. Usually 3 or 12 plants can be furnished if one or "each" is priced.

SPECIAL HANDLING: In certain areas ordinary parcel post does not insure sufficiently rapid delivery for plants. But with "special handling" the parcel is handled just like first class mail. If you are more than two days from Smithwick it will be well to add 35 cents to your remittance to cover this quick service.

A SEED LIST is issued in autumn.



HERBACEOUS PERENNIALS

Achillea lanulosa A welcome little non-ramping yarrow with heads distinctly white, at 6 to 9".

Actinea simplex Wide daisies of brilliant gold, 4 to 10" above silvered rosettes of narrow leaves. June and later. Ideal rock plant. 50; 3, \$1.00.

Aethionema pulchellum, Stone-Cress. (Turkish.) Perfectly adapted to dryish places, evergreen with tiny slightly bluish leaves. Great show of rosy pink heads an inch or two above. 8". 50c.

Agastache anethiodora, Anise Hyssop. Delightful fragrant tall herb. Spikes of soft lavender blue continuously, June on. Good soil, shade. 50c.

Anemone caroliniana Brave and dainty and jewel-like, inch and a half wide, blue, white or pink of 8 to 20 cupped petals. May. 3, 50c; doz. \$1.50.

Anemone patens, American Pasque. Large six-pointed stars of satiny lavender, March, April, ahead of the leaves. Decorative seed heads. South Dakota's state flower. 65c; 3, \$1.80.

Antennarias: Pussy-toes, Ladies' Tobaccos. Valuable evergreen rock garden ground covers, slow spreading, very low, each with its own texture.

A. aprica Broad little leaves of silvery olive in inch high mats, pussy-toe blossoms at 4". Gray-white, clump, 40c; soft pink, 50c.

A. aprica, staminate form, blossoms with tiny wide rays of white, at 3". Rare, new. 60c.

A. campestris Broader leaves, velvety deep green, underside white. Toes white or silvery. 50c.

A. microphylla Tiny bluish silver leaves, lovely pattern and texture. Toes white furry. 50c.

A. microphylla, staminate form, with apparent rays of white. 4" or less. Attractive, new. 60c.

A. obovata Like a larger aprica, gray toes. 50c.

A. rosea Rare selection with toes of rich dark rose. Narrower leaves than aprica. For shade, rich soil. 75c; 3, \$2.00.

Arenaria hookeri Needle leaved cushion of rich deep green, bebies of stemless white stars, June. Tap-rooted, for scree with lime. 50c; 3, \$1.20.

Arnica fulgens Large daisies of richest gold in patterned elegance. To 14", June. Leaves lanceolate, basal, gray. Summer dormant. 50c; 3, \$1.20.

Artemisia frigida Low, feathery, silvery, fragrant cushion sage. Arching racemes of tiny yellowish bells, August. 45c; 3, \$1.00.

Asclepias pumila Diminutive milkweed, prolific with cream-white umbels, midsummer on. 5 to 8". Decorative minute leafage. 50c; 3, \$1.20.

Aster batesi Slender arching stems to 24" or more, wreathed in closely set florets, lavender-blue and gold, September. Wide branching for low blooming, clip to 6" in July. 50c; 3, \$1.20.

Aster batesi, in deep blue. New. 60c.

Aster conspicuus From the Black Hills and northwest, new to our lists. Lavender-pink inch wide blossoms in profusion across the wide corymb-like top, at 24". Mainly August. Distinct, fine. 75c.

Aster geyeri, 'Black Hills.' Very superior strain, florets to 2" wide, an unsurpassed soft blue, late fall. 30 to 40". Drought resistant. 75c; 3, \$1.95.

Aster kumleini Showy purple or blue, gold centered, one of the finest native asters. Sheets of color at 12 to 15", September. 50c; 3, \$1.35.

Aster kumleini, 'Dream of Beauty'. Good definite pink, lavish flowering. 15". 55c; 3, \$1.45.

Aster meritus Earns its name with broad closely massed corymbs of pinkish violet, in July, 8 to 12". Performs well in shade. 60c; 3, \$1.45.

Aster ptarmicoides Cream centered white, beginning its long season of beauty in July. Sun or shade. 8 to 14". 50c; 3, \$1.35.

Astragali, hosts to nitrogen gathering bacteria, need limy scree, much sun, moderate moisture.

Astragalus gilviflorus, White Orophaca. A snow of high bannered pea blossoms, April, May, on a silver bun. Height 4", width to 8". 50c; 3, \$1.35.

A. goniatus Fresh lavender bonnets accented with purple, above green lacy leafage, June, August. 4 to 8". Root running but fine. 50c; 3, \$1.35.

A. missouriensis Clusters of brilliant magenta-purple peas, in June, on 12 to 20" wide, grayish, 5" high plant. Often short lived. 45c; 3 \$1.20.

A. spatulatus Irresistable gem with massed, light-reflecting purple bonnets, May, early June. Faintly frosty, prickly leaves. 4". 50c; 3, \$1.35.

A. barri, Red Orophaca. A rock garden "bun," newly distinguished from *A. tridactylus* by Dr. R. C. Barneby and named in our honor. Gray-green covered with lavender-rose blossoms, May. 3" high, 8" or more wide. 60c; 3, \$1.50.

Callirhoe involucrata, Wine Cups, Poppy Mallow. Trailing stems to 25", deep glossy cups, intense and pleasing wine red, in long season. 50c; 3, \$1.35.

Campanula petiolata, Western Harebell. Larger and more floriferous than typical *rotundifolia*, 8 to 18". Masses of translucent blue-purple or lavender flaring bells, June and later. 50c; 3, \$1.35.

Cerastium strictum Earth hugging mat of soft deep green, multitudinous white flowers to 8", May, July. Like a larger *C. arvense*. Clump, 50c.

Chrysopsis villosa, Golden Aster. Massed beauty in richest tone, August, September, 12". For best effect shear back to 4" in June. 50c; 3, \$1.20.

Clematis scotti, Leather Flower. Intriguing nodding urns, blue to purple, in May, 8 to 10". Glaucous plant, showy seed plumes. 75c; 3, \$1.50.

C. scotti Wonderful variant in a fresh pure pink. Rare find, slowly propagated. \$2.00 each.

Clematis tenuiloba Exquisite nodding, wide flaring, four-pointed stars of blue-purple all through June, 10". Narrow lobed leafage to 6 or 7". Dense ground cover, spreads slowly. 85c; 3, \$2.25.

Dalea aurea Novel and exotic appearing plant, silvery green and airy light yellow in prairie clover effect. 10 to 16", June. Scree. 60; 3, \$1.50.

Dalea enneandra White and silver in slender swaying racemes atop slender, nearly leafless stems, June, August. 25 to 35". May be planted among choice low scree things. 50c; 3, \$1.35.

Delphinium menziesi Velvety blue or deep purple-pink, quite large flowers, May, June. 12". Summer dormant. 50c; 3, \$1.35.

Dodecatheon pulchellum (pauciflorum.) Shooting Stars. As many as 15 darting rose or lavender-rose and gold stars in the umbel, *pulchellum* bring brilliancy, delight in May. 50c; 3, \$1.35.

D. pulchellum, 'White Comet.' A pure white of perfect form and large size, with a thread of gold at petal base. 85c; 3, \$2.00.

D. pulchellum, 'Red Comet.' Largest selection and fine deep rose color. 65c; 3, \$1.80.

Drymocallis fissa Cinquefoil cousin with plentiful five petaled, butter yellow saucers, June. 10 to 12". Rich dark pinnate foliage. 50c; 3, \$1.35.

Echinacea angustifolia, Pink Cone-flower. Beautiful, bold, wide rayed daisies of rosy pink, centers glossy prickly mahogany cones, July. 10 to 15". Sun loving, drought proof. 50c; 3, \$1.35.

Erigerons, allied to Asters, are commonly called daisies. They are of many types and uses.

E. asper Rich lavender in a dense shaggy fringe, inch and a fourth wide, gold centered. June, 8 to 9". Summer dormant. New. 50c; 3, \$1.20.

E. flagellaris, Whiplash Daisy. A dainty delight of small white daisies, always freely borne, June and later. 4 to 8". Shallow rooted spreader. 50c.

E. 'Prairie Gem,' has the habit of *flagellaris* but is a bit smaller, less invasive, the leaves greener and 2-lobed at the tip. Clump, 60c.

E. glabellus Inch wide daisies, light to deep lavender, several to the stem. July, August, 8 to 18". Low, glossy evergreen tufts. 50c; 3, \$1.35.

E. montanensis This willing new one lends a charming touch on limy screes, beginning June. Inch wide, white, 4 to 7". 50c; 3, \$1.35.

E. scribneri Upstanding jewels of glowing white and gold, inch wide, crowded, above a dark green cushion of linear leaves. Gay, sunny scree plant. To 5", May, June. 60c; 3, \$1.50.

Eriogonum depauperatum Globular heads, white, tinted rusty pink, above grayish leafage. Modest 4" subshrub, pleasing, new. 50c; 3, \$1.35.

Eriogonum flavum Charming fluffy umbels of soft yellow cover the plant in June. Beautiful all season mats of green felted leaves. 50c.

Evolvulus nuttallianus Quaint tiny lavender morning-glories along stems of a furry gray 8" branching bushlet. Sandy or gravelly soil. 50c.

Three little Ferns: all drought resistant, loving rich soil, some shade. **Cheilanthes feei**, dark green rugose rock fern, to 5". **Pellaea atropurpurea**, 6" rock fern to deep glossy green. **Woodsia scopulina**, bright green, to 6", accepts much sun, with steady moisture. Each 50c; 3, \$1.10; 1 of each, \$1.35.

Geum triflorum, Prairie Smoke. Rosetted leaves of deep green, reddish inflorescence to 12", sunburned pink petals that never open wide. Smoke puff seed plumes. Ladies love it! 50c; 3, \$1.35.

Gutierrezia sarothrae, Golden Dome. Countless fine stems and minute vivid green leaves, dressed in sparkling gold, Sept. To 12". 50c; 3, \$1.35.

Hedeoma camporum, Perennial Pennyroyal. Trim 8" herb, flushed with lavender-pink mint type blossoms, June on. Fine fragrance. 50c; \$1.20

Iris flavissima (arenaria) A welcome visitor in any rock garden, bright yellow, 5", June. From Hungary and east. 50c; 3, \$1.35.

Iris missouriensis Graceful flags of silvery blue at 12 to 16", June. Forming dense clumps of slender leaves. Free blooming. 50c; 3, \$1.35.

Lathyrus incanus, Sand Pea. Clusters of 2 to 7 large blossoms, banners purple-rose, wings white to pink, early May. 4 to 6". This one glaucous, downy. **L. ornatus**, much the same but glabrous, often brighter in banner. These are spreaders worth controlling. Either, 50c each; 3, \$1.35.

Lesquerella spatulata, Bladder-Pod. Bears its sun reflecting golden crucifer blossoms joyfully, May, June. 4" high, 10" wide. For clayey limy scree. Gray evergreen rosettes. 60c; 3, \$1.45.

Leucocrinum montanum, Sand Lily. Fragrant waxy white little lilies, to 4", grassy leaves, all from crown 2" underground. Prolific after first year. Lean soil. Summer dormant. 50c; 3, \$1.20.

Lewisia rediviva, Bitter-root. Glorious flowers of rich carmine pink, 2 to nearly 3" wide, upon the ground. Succulent foliage disappears at blossom time to come again in fall. Lean loam or silt. Summer dryness essential. State flower of Montana. 50c; 3, \$1.50.

Liatris ligulistylis, Blazing Star. 20 to 30 lovely luminous purple inch wide heads, July. Maroon bud bracts. 12 to 18" or more. 50c; 3, \$1.20.

Liatris punctata, Dwarf Gayfeather. Dense fluffy spikes of fine clear purple, 8 to 14", August. 45c.

Lithophragma parviflora, Woodland Star. Radiant stars of white in capitate raceme, 4", May, to 12" in June. Tiny tubers, small sod. 50c; 3, \$1.35.

Lithospermum incisum, Fringed Puccoon. Softly glowing yellow ruffled trumpets, May. Charming showy bushlet, to 12". 50c; 3, \$1.35.

Malvastrum coccineum, Flame Mallow. Arresting salmon-scarlet, inch wide, hollyhock blossoms in

short spires, long season. 5 to 8". Deeply cut grayish foliage. Lean soil, gravel. 50c; 3, \$1.35.

Mertensia lanceolata, Prairie Bluebell. In April a 2" stem bears a full cluster of pinkish buds, to open thrillingly in the first warm days, at 3". Stems branch and rebranch, with countless clusters into late June. Never above 10". 60c; 3, \$1.50.

Mirabilis multiflora, Hardy Four-o'clock. 15" high plant, spread 36" or more. Long season of lavish bloom in crimson-purple. Large deep root, for dryish well drained ground. 60c; 3, \$1.50.

Nothocalais cuspidata Rich textured golden discs, many rayed, 2" wide, from a few white margined leaves, April, May. 2 to 6". 50c; 3, \$1.35.

Nuttallia decapetala, Evening Star. Late afternoon blooming. 4" wide flowers, cream-white with a primrose yellow brush of stamens. All summer, strikingly beautiful. 12 to 26". Well drained shaley or gravelly soil. Short lived. 50c; 3, \$1.35.

Oenothera brachycarpa Magnificent evening primrose, soft yellow, 4" wide, open evening to morning. From cluster of silky green leaves at the ground. Spreads slowly from root. 60c each.

Oe. caespitosa, Gumbo Lily. Great snowy, fragrant flying saucers, from a patch of glossy leaves at the ground. Open all day, May to August. 5". Recommended scree. 50c; 3, \$1.20.

Oe. lavandulaefolia Rich 2", crinkled yellow blossoms, freely, June to frost. Open most of day. To 4", spread 8" or more. 60c; 3, \$1.50.

Oe. missouriensis incana Quite a little different from *missouriensis*, more upright, to 10" or so, and leaves gray-silky, but with the same large yellow saucers. New. 75c; 3, \$1.90.

Oe. serrulata Lavish producer of inch wide cups of brightest yellow, May, August. Open most of the day. Compact bushlet, to 10". 50c; 3, \$1.20.

Oe. speciosa 2 to 3" blossoms of lovely form in fine white freely borne in the usual long season of the *oenotheras*. About 12". Root colonizer, readily grown. 60c; 3, \$1.50.

Oxytropis lamberti, Purple Loco Typically red-purple, light to dark, its many 12" plumes of pea florets are spectacular, the silvery pinnate basal tufts of leaves handsome. 50c; 3, \$1.20.

Penstemons: They serve many uses delightfully, with varying adaptabilities. All need good drainage, the more important in climates moister than their habitats. Sandy soil for most. Evergreen basal rosettes or mats are the rule.

P. albertinus Of rock garden stature, 10" or so, basal mat of glossy leaves, and always the most intense and eye-catching blue in our garden. From west of the Plains. Permanent. 60c; 3, \$1.50.

P. albidus Large white blossoms, June, 10 to 15". Broad lanceolate green leafage. Demands somewhat firm soil texture. 50c; 3, \$1.20.

P. angustifolius Large blossoms, exquisite form and carriage, melting deep azure, June. 12". Foliage glaucous. Often in loose sand. 50c; 3, \$1.20.

P. caespitosus Tiny broad leaves in a 2" spreading mat, liberally sprinkled with lavender-blue, June. Quite at home at Prairie Gem, dry half shade. 50c.

P. eriantherus Large, lovely, warm lavender with prominent tongue of gold. June, 8 to 12". Dark rough leafage. Needs some clay and lime, extreme drainage, no richness. 50c; 3, \$1.35.

P. glaber Marvelous intensity of blue, dark or lighter, to 18" or more. June, July, repeating if cut back. Plant dark green. Adaptable. 50c; 3, \$1.35.

P. glabrescens (*crandalli glabrescens*, but very different from *crandalli*.) Bushlet with upright

spikes of blue, to 5". "As big a kick as any recent introduction," (Stuart Boothman.) 60c each.

P. gracilis A light and graceful smaller flowered kind in amethyst. To 12", June, July. 50c.

P. grandiflorus Very large flowered, cool deep lavender, with glaucous broad leaves. 30 to 40". June. Not for wet climates. 55c; 3, \$1.40.

P. nitidus Earliest to bloom, brilliant caerulean, large flowered. Plant glaucous. Especially choice dwarf form, 8 to 12", May. 55c; 3, \$1.45.

P. procumbens (crandalli procumbens, but very different from crandalli.) Lovely mat former, 2 or 3" high, bright blue flowered. Extra vivid winter green. Sun or half shade. 60c; 3, \$1.50.

P. virens Sister species of albertinus, with lavish production in deep purple-blue. Similar permanent evergreen mat. 50c; 3, \$1.35.

Petalostemon oligophyllus, Prairie Clover. White circlets in gay mood on green cones. June, 10". Small dark leaflets, airy habit. 50c; 3, \$1.35.

Petalostemon purpureus Circlets of orange anthered purple-red on slender deep green thimbles. June, July, 15". Scree or sand. 50c; 3, \$1.35.

Petalostemon villosus Silvered velvety plant, silvery lavender-rose fingers, all very lovely. July, August. Arching, mostly under 12". 50c; 3, \$1.35.

Phloxes of the Great Plains delight in a scree of dominantly clay content and a bit of richness. Give half shade and keep cool until established, then more sun.

P. alyssifolia abdita (Dr. E. T. Wherry's new classification of the larger flowered form.) Lavender-pink, inch wide, full lobed, fragrant, May, June. To 4". Slow mat maker. 60c; 3, \$1.50.

P. alyssifolia, select cream-white. 55c; 3, \$1.35.

P. andicola Large full lobed white, needle leaved phlox of the high prairies, forming colonies or mats. 4". May, June. Any soil. 50c; 3, \$1.35.

P. andicola a fine rare lavender. 55c; 3, \$1.45.

P. andicola very rare beautiful powder blue. 60c.

P. andicola parvula, 'Dr. Wherry.' So named in high respect as botanist and friend. Outstanding selection, wide overlapping petals, glowing white. In size between hoodi and andicola. Each, \$1.00.

P. hoodi Mossy green mats, slow spreading, finally wide. Snowed over with lovely little blossoms in April and early May. 55c; 3, \$1.45.

P. longifolia Fine clear white form of this handsome 6" upright species. Leaves linear, dark. 50c.

Polygala alba, Milkwort. Slender tapering spikes of white, sometimes tinged purple, that never fail to charm. To 8". Dainty dark leafage, evergreen. Heavy soil preferred. New. 50c; 3, \$1.20.

Potentilla divisa A double handful of pirate's gold among silvered deep-cut leaves, early May. 3", with spread to 10". Scree or rocks. 60c; 3, \$1.65.

Ruellia ciliosa Inch-and-a-half petunia in glowing lavender, catching everyone's eye. 8 to 12". Fresh every day, all summer. 50c; 3, \$1.35.

Senecio purshianus Rock plant with all season gray foliage tufts, 2" high, displaying in June airy paniced golden daises at 8". 50c; 3, \$1.20.

Sideranthus spinulosus Massed inch wide asters of glinting gold, at 4", September. The type has frosty, fine textured, pungent foliage, branches densely. Poor soil, hot sun. 60c; 3, \$1.50.

Sisyrinchium angustifolium, Blue-eyed Grass. Neat clumps of narrow leaves, profusion of six-pointed stars at 6 to 8". 45c; 3, \$1.10.

Sisyrinchium campestre Charming little white "water lilies" at 5". Occasionally light blue. June. Responds to good soil. 60c; 3, \$1.50.

Solidago glaberrima, Smooth Goldenrod. Beautiful broad nodding tipped panicles, August. Choice dwarf form, to 12". Moderate traveler. 50c.

S. mollis Especially rich billowy heads, September, 4 to 12". Gray-green. Slow traveler. 50c.

S. pallida Lovely,, fragrant, luminous light golden plumes, September, 16 to 18". Broad glossy basal leaves, non-spreading clump habit. 60c; 3, \$1.50.

S. pulcherrima September beauty in plump tapering rods. 14". Clump habit, non-spreading. 60c.

S. wardi Flat topped heads at 28 to 30", valuable non-spreading border plant. New. 60c; 3, \$1.50.

Thalictrum venulosum, Dwarf Meadow Rue. Very attractive mounds of dense, faintly bluish foliage, to 6" or so. Negligible bronzy bloom to 20". Colony forming, not rampant. 50c; 3, \$1.35.

Thermopsis rhombifolia, Dwarf Golden Pea. 8 to 12". Broad packed racemes of glowing medium yellow, May. Unusual beautiful colonizer. 50c.

Townsendia exscapa, Easter Daisy. Astonishing large pink daisies upon a tuffet of evergreen leaves, all under 2". Lean scree. 50c; 3, \$1.35.

Townsendia hookeri (long known as sericea.) One of the Plains' first responses to spring. Gems of white daisies on tufts of ashy green, early April. 2" high, to 4" wide. Limy scree. 50c; 3, \$1.35.

Tradescantia bracteata, Rainbow Spiderwort. Of many colors and tints. Breaks into bloom in June at 4", continues in long season to 10". Selections in bright rose, purple, each 40c; appleblossom pink, fine white, each 50c. Mixed, doz., \$3.00.

Verbena bipinnatifida Bright lilac-blue, steady in production from May to October. Low, trailing. Hardy with winter dryness at the crown. 50c; 3, \$1.20. By June from seed, packet. 25c.

Viola adunca A smiling quizzical little old man in deep blue. Part shade. Often blooms again in autumn. Appreciates good soil. 50c; 3, \$1.20.

Viola nuttalli Brilliant golden violet of the dry sunny plains. Heavy producer, April, May. 2 to 6". Summer dormant. 40c; 3, \$1.00.

Viola pedatifida Large blossoms of light to medium violet, well above deeply incised leaves. 4". Any soil, light shade or sun. 50c; 3, \$1.20.

Viola rugulosa White, tinted pink, with violet pencilings. Long season, 4 to 12". Short stolons build a dense ground cover. Clump, 45c; 3, \$1.20.

Yucca glauca Bayonet-like leaves to 18"; 30" or taller spires, occasionally branched, of nodding lilies, usually greenish cream, July. 75c; 3, \$1.50.

BULBS FOR FALL PLANTING

Allium cernuum, Nodding Onion. Umbels of light shell pink, July, 8 to 12". 3, 45c; doz., \$1.00.

A. geyeri Very pink heads at 4", mountain top, to 20" in lush meadow. New. 3, 50c; doz., \$1.20.

A. nuttalli, Sand Onion. Pretty new one, red as a two-cent stamp. Forms dense clumps. Usually 4". Early, pleasantly fragrant. 3, 50c; doz., \$1.00.

A. recurvatum superbum Much larger than cernuum, richer pink. Leaves glaucous, flattish. 3, 60c.

A. sphaerocephalum To 24" or more, with ball-like heads of deep maroon. Dark green. 3, 45c.

A. textile Broad upright umbels of green ribbed white, 5 to 8", May. Summer dormant. 3, 45c.

Androstephium caeruleum, Blue Bethlehem Star. Wide umbels of soft blue, 4 to 6", May. Few dark green grassy leaves. 30c; 3, 75c; doz., \$2.60.

Calochortus gunnisoni, Mountain Mariposa. Lovely white chalice, clusters of greenish hairs at base. July, 15". Grassy leaves. 3, 50c; doz., \$1.50.

C. macrocarpus One of the hardiest and most reliable of mariposas, striking long pointed stars of satiny lavender. July. 3, 60c; doz., \$1.80.

C. nitidus Hardy Montana species, white or lavender with purple spot high in petal. Leaf broad, glaucous. June, 10". 3, 60c; doz., \$1.80.

C. nuttalli, Sego Lily, Mariposa Tulip. Shining white, marked gold and maroon at base. June, 12". Glaucous plant. 3, 50c; doz., \$1.50.

Camassia esculenta Deep lavender-blue to light blue stars in closely set spire, flecked with golden anthers. Lovely, May, 12". 35c; 3, \$1.00.

Erythronium mesochorium, Prairie Erythronium. Rare member of a charming group of Maytime bulbs. Lavender tinted white stars, segments recurved. Free flowering. 3, 60c; doz., \$2.20.

Lilium umbellatum True species, resembling *L. philadelphicum*. One to three up-facing orange-red cups, 4" wide, June, July. 10 to 16". Lime tolerant. 4" deep, good soil, well drained. Cool or much shade. Blooming size, 60c; 3, \$1.50.

Nemastylis acuta, Prairie Irid. Like a giant blue-eyed grass flower in clear light gentian blue, an inch to nearly two wide. 4 to 6". Stiff upright pleated leaves. 3, 75c; doz., \$2.50.

Tulipa sylvestris (Europe.) Scintillating golden stars at 9 to 12", with a delicate air. Spreading slowly by stolons. 3, 45c; doz., \$1.50.

Zygadenus elegans, False Camas. Spire-like panicles of whitish stars, yellow spotted at base, 18", July. Prefers some shade. 3, 60c; doz. \$2.00.

Z. gramineus Counterpart of *C. esculenta* in cream and gold. 10 to 16", June. Usual basal grass-like leaves. 3, 50c; doz., \$1.50.

FOR GARDENS IN HALF SHADE and moderately rich soil, well drained: *Achillea*, *Agastache*, *Alliums cernuum*, *geyeri* and *recurvatum*, *Anemone patens*, *Antennarias campestris*, *microphylla*, *rosea*, *Arnica fulgens*; *Asters conspicuus*, *geyeri*, *meritus* and *ptarmicoides*, *Campanula*, *Cerastium*, both *Clematises*; *Delphinium*, *Dodecatheon*, *Erigerons asper*, *flagellaris*, *Prairie Gem* and *glabellus*; the ferns, *Geum*, *Iris missouriensis*, *Liatris ligulistylis*, *Lilium*, *Lithophragma*; *Penstemons caespitosus*, *gracilis*, *procumbens*, *virens*, *Solidago pallida*, *Thalictrum*; *Calochortus gunnisoni*, *Zygadenus elegans*, the violets except *nuttalli*. With adequate moisture, however, sun is equally agreeable to these shade tolerant kinds.

COLD CLIMATE CACTI

Cactus culture: Cold climate cacti naturally reduce their moisture content and shrivel on the approach of winter. An ample depth, 12", or less, of 9 parts gravel and sand to 1 of good loam, supports lavish bloom, aids essential winter dryness.

Coryphantha vivipara Ball, to 3" or more, showy carmine flowers on top, June. 35c; 3, 90c.

Echinocereus viridiflorus Glossy greenish yellow blossoms on the ribs, June. To 4 or 5". Color banded spines on new growth. 35c; 3, 90c.

Neobesseya missouriensis Ball, to 2" or wider. Blossom yellow or pale orange, May. 35c; 3, 90c.

Opuntia aurea Almost spineless prickly pear with wonderfully rich yellow flowers. 50c.

O. fragilis, Brittle Cactus. Pygmy prickly pear, 3" high. Large yellow flowers, June. 35c; 3, 90c.

O. humifusa Pads to 4 or 5". Selection with very large red centered yellow blossoms, June. Ripe pears dark red, showy, edible. 45c; 3, \$1.10.

O. imbricata, Tree Cactus. Ribbed cylindrical sections. Grows to 48" or more, blooming at 24" or so. Carmine, July. Rooted joints, 50c; 3, \$1.20.

O. pollardi Joints 2 or 3" wide, bright green, blossoms bright yellow with a showy crimson splash on lower half of petal. First offering. 60c each.

O. polyacantha Many spined prickly pear, pads 4" or more, 4" crystal-like blooms, May. Select pure lemon, fine rich orange, wonderful deep carmine, each 50c; 3 of a color, \$1.20. New chartreuse with apple green base, 60c; one each of four colors, \$1.60.

O. rutila Narrow smallish pads, rapid growth, 2" carmine blossoms in profusion. 40c; 3, \$1.10.

O. 'Apache.' Ferociously spiny, new spines reddish, erect like hair standing on end. Probable *rutila* hybrid. Carmine flower. 50c; 3, \$1.35.

O. 'Smithwick.' *Humifusa x fragilis*. Twice the size of *fragilis*, free blooming bright yellow. 40c.

Cactus collections: One each of the above 15 descriptions, \$5.50. One each of any 10, at the each price, deduct \$1.25.

SHRUBS

Amorpha canescens, Lead Plant. Low, gray, velvety plant with orange dotted purple fingers of bloom, June, July. 12 to 35". 85c; 3, \$2.00.

Artemisia cana, Gray Sage. Rather stiffly erect, 18 to 36". 1½" lance-linear leaves. 75c; 3, \$1.65.

Artemisia filifolia, Sand Sage. Beautiful, silvery, fine textured, much branched, delightfully fragrant. Commonly to 24". 85c; 3, \$2.00.

Artemisia tridentata, Sagebrush. Tiny blue-silvery three-tipped leaves, erect bushy plant. Nice fragrance. Local form, to 40". \$1.00; 3, \$2.50.

Atriplex canescens, Salt Bush. Densely branched, broad all gray-green bush, to 24". Conspicuous seed wings. Nearly evergreen. 75c; 3, \$1.65.

Cercocarpus montanus, Mountain Mahogany. Little slightly grayish toothed leaves, novel greenish blossoms, silky seed tassels. Pleasing alone or grouped. Erect to arching, 5 to 8 ft. \$1.00, 3, \$2.50.

Chrysothamnus graveolens, Rabbit Brush. Broad 36 to 40" bush, covered with goldenrod-like bloom in September. Spectacular effect. 85c; 3, \$2.00.

Chrysothamnus plattensis A dwarf, to 10 or 12", white stemmed, gray leaved, with similar bloom in fall, in light gold. New, rare. 75c; 3, \$1.80.

Eurotia lanata, Winter-Fat. Holds its light gray color well into winter, adding seed tufts of white in autumn. 12 to 20". 85c; 3, \$2.00.

Prunus melanocarpa, Choke Cherry. Extra large fruited selection. Mild to eat, marvelous flavor in jelly or juice. Striking in fruits, charming in thick fingers of creamy flowers in May. Usually 10 to 15 ft. 24 to 30", each, \$1.00; 3, \$2.50.

Rosa arkansana, 'J. W. Fargo.' Native tetraploid of 40 petals, delightful wild rose pink, showing a golden center. Cluster flowering, mainly July. Much branched, 10 to 20". \$1.00; 3, \$2.50.

Rosa foliolosa Refreshing, 1½" pure white single. Small shining leaflets. Usually 10". \$1.00; 3, \$2.50.

